

IN THE SPECIFICATION

Please substitute the paragraph starting at page 1, line 12 through line 24, with the following paragraph. A marked-up copy of the paragraph, showing the changes made thereto, is attached.

A1

Conventionally, a remote monitoring system using a plurality of cameras includes a plurality of video cameras, and a synthesizer for performing analog synthesis of the images output from these cameras. Such a system is typically utilized within a relatively small building, and is called a local monitoring system. In contrast to such local monitoring systems, remote monitoring systems have been proposed in which a plurality of cameras are connected to a digital network, such as a LAN (local area network), an ISDN (integrated services digital network), or the like, serving as a public digital network, in order to provide a more flexible system and to connect a larger number of cameras which are present at more remote locations.--

Please substitute the paragraph starting at page 1, line 25 through page 2, line 9, with the following paragraph. A marked-up copy of the paragraph, showing the changes made thereto, is attached.

A2

In some recent remote monitoring systems, a personal computer or a work station is utilized as a monitoring terminal, and image display using a graphical user interface (GUI), and system control are realized. By utilizing the GUI of the computer as the monitoring terminal, even a person who is not familiar with the apparatus can easily operate the system. In particular, by displaying a control panel of a camera which outputs an image, on a monitor together with an image from the camera, the operability of the system can be improved.--

Please substitute the paragraph starting at page 2, line 10 through line 16, with the following paragraph. A marked-up copy of the paragraph, showing the changes made thereto, is attached.

A3
-For example, a summary of images from a plurality of cameras, or the details of an image from a specific camera, may be displayed as an image in the conventional system of this type. However, the operability of the display operation and the capability to identify the state of the system are not always acceptable. Therefore, there is room for improvement.--

Please substitute the paragraph starting at page 2, line 17 through line 19, with the following paragraph. A marked-up copy of the paragraph, showing the changes made thereto, is attached.

A4
-Consider a case in which images from a plurality of cameras are displayed and the processing speed of the monitoring terminal is not high.--

Please substitute the paragraph starting at page 2, line 20 through page 3, line 1, with the following paragraph. A marked-up copy of the paragraph, showing the changes made thereto, is attached.

A5
-The monitoring terminal sequentially expands and displays received compressed images from a plurality of cameras. However, when the calculation speed of the monitoring terminal is not high, the frame rate of the displayed image from each camera is, in some cases, reduced. Furthermore, when the network does not have a sufficient capacity for the transmitted image or images, the frame rate is also reduced.--

Please substitute the paragraph starting at page 3, line 2 through line 8, with the following paragraph. A marked-up copy of the paragraph, showing the changes made thereto, is attached.

A6

As a result of frame rate reduction, the operator of such a conventional monitoring system may erroneously recognize that there is an abnormality in the monitoring terminal because a change in the displayed image is small. In another case, even if there is no change in the displayed image because there is an abnormality in the monitoring terminal, the operator may not recognize the abnormality and fail to correctly monitor the image.--

Please substitute the paragraph starting at page 11, line 20 through page 12, line 42, with the following paragraph. A marked-up copy of the paragraph, showing the changes made thereto, is attached.

A7

In FIG. 2, there are shown a CPU (central processing unit) 22 for controlling the entire terminal, a main storage 24, a detachable external storage 26, such as a floppy disk, a CD(compact disc)-ROM(read-only memory) or the like, a secondary storage 28, such as a hard disk or the like, a mouse 30 serving as a pointing device, and a keyboard 32. The camera control device 14 is connected to an I/O (input/output) board 34 for transmitting/receiving camera control signals. A video capture device 36 receives a video output signal from the video camera 16. The video capture device 36 of the first embodiment has the A/D (analog-to-digital) conversion function of converting an analog video signal into a digital signal, and the image compression function of compressing information. A video board 38 displays image information on the picture surface of a monitor 40. There are also shown a network interface 42, and a system bus 44 for interconnecting the devices 22-38, and 42.--

Please substitute the paragraph starting at page 14, line 17 through page 15, line 7, with the following paragraph. A marked-up copy of the paragraph, showing the changes made thereto, is attached.

A8

The image reception software 52 controls the cameras 16 connected to all the image transmission terminals 12 which are connected to the network 10, and includes fixed information and various types of changing information. Non-limiting examples of changing information include, but are not limited to, the name of each camera 16, the name of the host computer to which each camera 16 is connected, the state of each camera 16, such as panning/tilting, zooming or the like, whether each camera 16 is controllable, the camera 16 which is currently controlled, the camera 16 providing the currently displayed image, and the state of image distribution, such as the frame rate or the like. The image reception software 52 utilizes such information for image information display and the like. Such information is also supplied to the camera control client 50 and the map control software 54, and is utilized, for example, for changing the display of the camera symbol.--

Please substitute the paragraph starting at page 17, line 17 through page 18, line 5, with the following paragraph. A marked-up copy of the paragraph, showing the changes made thereto, is attached.

A9

The details of camera control in the first embodiment will now be described in detail. When intending to display an image from a camera 16, an operation of selecting the camera icon indicating that camera 16 on the corresponding map of the map window 60, superposing the selected camera icon on one of the image display regions 66a - 66f on the image display window 64, and then releasing the camera icon (a so-called drag-and-drop operation), is

performed. Usually, an unused region of the image display regions 66a - 66f is selected. When the image display region currently being used has been selected, a warning of switching of the camera may be performed, and the user may be asked to select between continuation and interruption. Such processing is known in the art.

Please substitute the paragraph starting at page 20, line 25 through page 21, line 16, with the following paragraph. A marked-up copy of the paragraph, showing the changes made thereto, is attached.

A 10 FIG. 10 is a flowchart illustrating processing for turning off the power supply of an arbitrarily selected camera 16. When intending to temporarily turn off the power supply of the selected camera, an operation of selecting a camera icon indicating the camera whose power supply is to be turned off, and depressing a camera power supply button 70 of the camera control panel 68, is performed. The camera power supply button 70 is displayed with a different color and/or different characters (for example, "power supply off" or "power supply on") in accordance with the state of the power supply of the concerned camera. In accordance with the operation of the camera power supply button 70, the camera control client 52 notifies the camera control server 56 of the image transmission terminal 12 to which the corresponding camera 16 is connected of a request to turn off the camera power supply via the network 10 (step S1).--

Please substitute the paragraph starting at page 27, line 9 through line 18, with the following paragraph. A marked-up copy of the paragraph, showing the changes made thereto, is attached.

When intending to interrupt image display, an operation of putting an image

A11 to be displayed on the image display region to be interrupted into the trash bin icon 66g may be performed. FIG. 12 illustrates a case in which display of an image displayed on the image display region 66c is interrupted. The mouse button is depressed after moving the mouse pointer onto the image display region 66c, the mouse pointer is moved onto the trash bin icon 66g while depressing the mouse button, and the mouse button is released on the trash bin icon 66g.--

Please substitute the paragraph starting at page 45, line 4 through line 14, with the following paragraph. A marked-up copy of the paragraph, showing the changes made thereto, is attached.

A12 Since the frame rate of an image being received can be notified, it is possible to prevent misdetermination by the operator as a failure which may occur, for example, when the frame rate of the image is small because the speed of the network is low or because display processing (display, decoding (in the case of a compressed image), and display) of the communication apparatus is slow. Thus, the operator can easily recognize the state of reception. Furthermore, the value of the frame rate can be easily confirmed.--

IN THE CLAIMS:

Please amend Claims 1, 8, 10, 11, 15, 22, 24, 25, 29, and 30 as follows. A marked-up copy of these claims, showing the changes made thereto, is attached. Please note that all claims currently pending in this application are being reproduced below for the Examiner's convenience.